

इंटरनेट

मानक

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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 10331 (1982): Fuel Tap for Mopeds [TED 6: Automotive Body, Chassis, Accessories and Garage Equipments]



“ज्ञान से एक नये भारत का निर्माण”

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“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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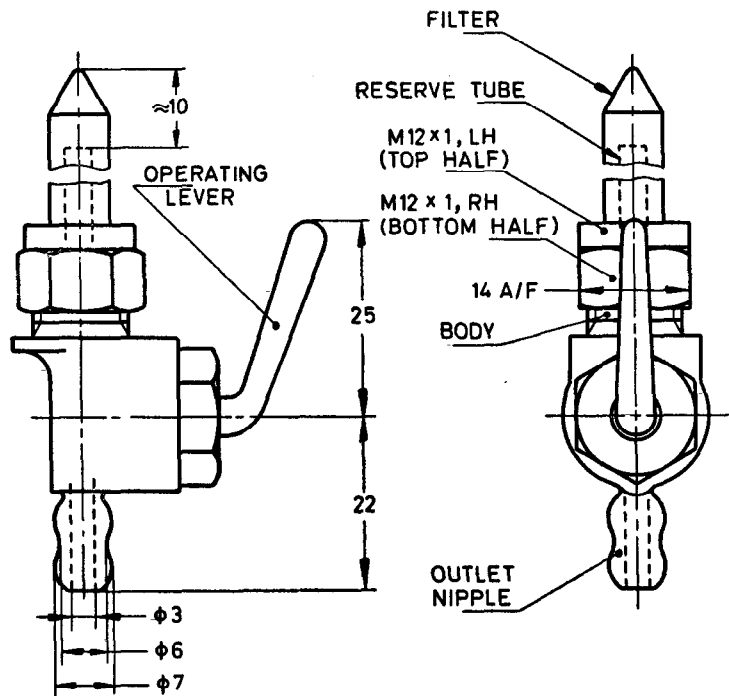




Indian Standard

SPECIFICATION FOR
FUEL TAP FOR MOPEDS

1. **Scope** — Covers basic requirements and dimensions of fuel tap used in mopeds.
2. **Definitions**
- 2.1 **Fuel Tap** — A mechanical device meant to allow/check the passage of fuel. In the case of mopeds, the fuel is a mixture of petrol and oil as recommended by the manufacturer [see also IS : 4639-1968 Glossary of petroleum terms].
3. **Shape and Dimensions**
- 3.1 The recommended shape and dimensions of the fuel tap are as shown in the figure given below. A tell-tale indication shall be provided on or in the vicinity of the fuel tap indicating the operating positions of lever.



All dimensions in millimetres.

- 3.2 The minimum length of the operating lever shall be 25 mm.
- 3.3 The outlet nipple dimensions shall be as shown in figure above.
4. **Material** — The material used for the manufacture of fuel tap shall be aluminium, brass or zinc base die casting alloy. The recommended materials for other components are as follows :

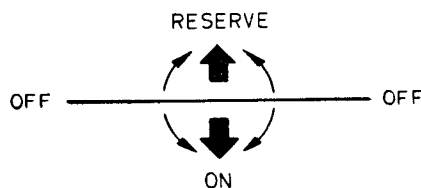
Components	Material	Conforming to
Reserve tube	Aluminium or Brass	IS : 738-1977 'Wrought aluminium and aluminium alloy drawn tube for general engineering purposes (second revision)' IS : 407-1981 'Brass tubes for general purposes (second revision)'

Mopeds Sectional Committee, EDC 78 [Ref : Doc : EDC 78 (3221)]

<i>Components</i>	<i>Material</i>	<i>Conforming to</i>
Filter element	Brass	IS : 3169-1965 'Two stage, one litre fuel filters for diesel engines'
Operating lever	Aluminium or zinc alloy	IS : 737-1974 'Wrought aluminium and aluminium alloys, sheet and strip for general engineering purposes (<i>second revision</i>)' or IS : 3965-1969 'Dimensions for wrought aluminium and aluminium alloys, bar, rod and section' or IS : 742-1981 'Zinc base alloy die castings (<i>second revision</i>)'
Spring	Cold drawn spring steel	IS : 4454 (Part III)-1975 'Steel wires for cold formed springs : Part III Oil hardened and tempered steel wires — alloyed (<i>first revision</i>)'
Washer	Oil resistant rubber or flexible PVC	IS : 5188-1969 'Cold polymerized oil — extended raw styrene — butadiene rubber' or IS : 9766-1981 'Flexible PVC compounds'

5. General Requirements

5.1 A mechanism shall be provided to operate the tap in three different directions as shown below :



5.2 The minimum fuel flow rate through the tap under 100 mm head shall be 150 cc/minute.

5.3 The minimum reserve capacity shall be 0.5 litre.

5.4 The mesh size of filter element shall be 75 micron as per IS : 460 (Part I)-1978 'Wire-Cloth test sieves (*second revision*)'.

5.5 The fixing arrangements of a fuel tap to the fuel tank may vary.

6. Tests

6.1 There shall not be any leakage of fuel from fuel tap assembly, under a minimum head of 500 mm of fuel.

6.2 The tap operating lever mechanism shall be tested in all the positions for 15 000 cycles and there shall not be any leakage of fuel under 500 mm head after the test.

7. Marking

7.1 The fuel tap shall be marked with the

- Manufacturer's name and trade-mark (if any), and
- Serial number and the year of manufacture.

7.1.1 ISI Certification Marking — Details available with the Indian Standards Institution.

3. Sampling

3.1 Unless otherwise agreed to between the purchaser and the supplier, the sampling inspection shall be carried out according to the procedure given in IS : 2500 (Part I)-1973 ' Sampling inspection tables : Part I Inspection by attributes and by count of defects '. The sampling plan to be followed for the different characteristics shall be as given in **3.1.1** and **3.1.2**.

3.1.1 For visual and dimensional characteristics, the single sampling plan with inspection level IV and AQL of 2.5 percent given in Table 1 and 2 of IS : 2500 (Part I) shall be followed.

3.1.2 For the various tests given under **4.1** the sampling plan with inspection level II and AQL 1 percent given in Table 1 and 2 of IS : 2500 shall be followed.